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(FILE 'HOME' ENTERED AT 15:58:26 ON 04 JAN 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
15:58:42 ON 04 JAN 2005

L1 76374 S (INSULIN RESISTANCE)
L2 39 S L1 AND FIBRONECTIN?
L3 960 S L1 AND FIBRINOGEN?
L4 6 S L2 AND L3
L5 3 DUPLICATE REMOVE L4 (3 DUPLICATES REMOVED)

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DUPLICATE 1

AN 2002:504789 BIOSIS

DN PREV200200504789

TI **Insulin resistance** is accompanied by increased von
Willebrand factor levels in nondiabetic women: A study of offspring of
type 2 diabetic subjects compared to offspring of nondiabetic subjects.

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SO Journal of Internal Medicine, (August, 2002) Vol. 252, No. 2, pp. 155-163.
print.

CODEN: JINMEO. ISSN: 0954-6820.

DT Article

LA English

ED Entered STN: 25 Sep 2002

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AB Objectives: To examine whether levels of von Willebrand factor (vWF),
fibrinogen and **fibronectin** are related to a parental
history of type 2 diabetes and to determine possible explanatory factors
for high versus low vWF and **fibrinogen**. Design: Cross-sectional
study. Subjects, main outcome measures: We compared vWF,
fibrinogen and **fibronectin** in 88 nondiabetic offspring
of type 2 diabetic subjects (relatives) and 103 offspring of nondiabetic
subjects (controls). Other measurements included urinary albumin
excretion rate, blood pressure, lipid profile and **insulin**
resistance using homostatis model assessment (HOMAIR). Results:
There were no significant differences in vWF (1.12 vs. 1.06 IU mL⁻¹,
P=0.296), **fibrinogen** (3.2 vs. 3.1 g L⁻¹; P=0.263) or
fibronectin (0.39 vs. 0.40 g L⁻¹, P=0.448) between relatives and
controls. With multiple logistic regression we determined explanatory
factors for high versus low vWF and **fibrinogen**. Age (P<0.01),
urinary albumin excretion rate (P<0.05), ischaemic heart disease (IHD)
(P<0.05) were found to be significant explanatory factors for vWF above
the median (1.10 IU mL⁻¹). Interaction between **insulin**
resistance and sex was found. Odds ratio for high versus low
insulin resistance was 18.39 (P<0.001) for women and
1.92 (P=0.32) for men. Body mass index (BMI) (P<0.05), sex (P<0.01),
smoking status (P<0.05) and IHD (P<0.01) were significant explanatory
factors for **fibrinogen** above the median (3.1 g L⁻¹).
Conclusions: Levels of vWF, **fibrinogen** and **fibronectin**
were not influenced by a parental history of type 2 diabetes.
Insulin resistance was found to be a significant risk
indicator for high vWF only in women. This may indicate that
insulin resistance is a higher risk factor for women
than for men, when the outcome is endothelial dysfunction possibly
resulting in overt cardiovascular disease.

CC Blood - Blood and lymph studies 15002

Metabolism - Metabolic disorders 13020

Cardiovascular system - Physiology and biochemistry 14504

Cardiovascular system - Heart pathology 14506

Cardiovascular system - Blood vessel pathology 14508

Urinary system - Physiology and biochemistry 15504

Endocrine - General 17002

Endocrine - Pancreas 17008

IT Major Concepts

Cardiovascular Medicine (Human Medicine, Medical Sciences); Clinical
Endocrinology (Human Medicine, Medical Sciences)

IT Parts, Structures, & Systems of Organisms

heart: circulatory system; urine: excretory system

IT Diseases
 endothelial dysfunction: vascular disease
 Endothelium, Vascular: PP, physiopathology (MeSH)

IT Diseases
insulin resistance: endocrine disease/pancreas,
 metabolic disease
Insulin Resistance (MeSH)

IT Diseases
 ischemic heart disease: heart disease
 Myocardial Infarction (MeSH)

IT Diseases
 type 2 diabetes: endocrine disease/pancreas, metabolic disease
 Diabetes Mellitus, Non-Insulin-Dependent (MeSH)

IT Chemicals & Biochemicals
 albumin; **fibrinogen**; **fibronectin**; insulin; von
 Willebrand factor

IT Miscellaneous Descriptors
 blood pressure; lipid profile; urinary albumin excretion rate

ORGN Classifier
 Hominidae 86215
 Super Taxa
 Primates; Mammalia; Vertebrata; Chordata; Animalia
 Organism Name
 human: adult, female, male, patient
 Taxa Notes
 Animals, Chordates, Humans, Mammals, Primates, Vertebrates

RN 9004-10-8 (insulin)

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